

ABSTRACT OF THE DISCLOSURE

A method and system for detecting satellite signal lock in a satellite receiver system is disclosed. The system includes a first filter that isolates a noise frequency from the satellite signal, a second filter that isolates a service frequency from the satellite signal, circuits that derive a value indicative of the difference between a noise component and a service frequency component and output a difference signal level, a first comparator that determines whether the difference signal level is greater than a first threshold level, and a second comparator that determines whether the difference signal level is greater than a second threshold level. The method includes the steps of establishing a first threshold value between a satellite signal power level and the noise power level, combining a value indicative of a noise frequency signal component with a value indicative of a service frequency component to obtain a difference signal value, comparing the difference signal value with the first threshold value, and issuing a command if the difference signal value is below the first threshold value to inform the user of the loss of signal lock.

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